SECTION C

STATEMENT OF WORK

C.1 SLAC INTRODUCTION

C.1.1 Task Order Purpose and Overview

This is a Cost Plus Award Fee Task Order issued under the U.S. Department of Energy (DOE) Office of Environmental Management's (EM) Multiple Award Indefinite Delivery Indefinite Quantity (ID/IQ) Task Order Contract. This Task Order Statement of Work (SOW) reflects the application of approaches and techniques that emphasize performance based results/outcomes and minimize "how to" performance descriptions. The ID/IQ Task Order Contractor (hereinafter Task Order Contractor) has the responsibility for total performance under the Task Order, including determining the specific methods for accomplishing the work.

The purpose of this Task Order is to perform the work necessary to cleanup the soil and groundwater contamination at Stanford Linear Accelerator Center (SLAC). Activities required to be performed are identified in this SOW and include but are not limited to soil and groundwater investigations, feasibility studies, remedial action plans, remedial design, soil removal actions and groundwater treatment system construction, start-up, and testing.

C.1.2 Background

SLAC is a photon and particle/particle astrophysics research facility operated by Stanford University (SU) for the U.S. Department of Energy's (DOE) Office of Science through a Management and Operating (M&O) Contract between the two parties. SU is currently the M&O Contractor. The SLAC facility occupies 426 acres of SU property which has been leased to the DOE (then the Atomic Energy Commission) for 50 years since 1962. During that time, SLAC has been used for research and support operations that have involved the storage, use and disposal of volatile organic compounds (VOCs), semi-VOCs (SVOC), polychlorinated biphenyls (PCBs), lead and other hazardous materials.

In late 1984, an investigation confirmed that contaminated soil and groundwater were present and could potentially threaten public health and the environment. In July 1985 the California Regional Water Quality Control Board, San Francisco Bay Area Region (RWQCB) placed SLAC under a Waste Discharge Order (No. 85-88) for the Former Solvent Underground Storage Tank (FSUST) area.

In May 2005, the RWQCB issued a new Order (R2-2005-0022) to DOE and SU for the "investigation and remediation of impacted soil and groundwater resulting from historical spills and leaks that have occurred during the course of operations at the SLAC." The RWQCB Order addresses numerous release locations at SLAC and provides the framework for completing investigation and cleanup activities at the facility. The RWQCB has been designated as the administering agency for the site investigation and remediation.

An initial task required by the RWQCB Order was to conduct an environmental baseline report that would develop an exhaustive inventory of sites with known or potential contamination and would establish the path forward for each site. The approved *SLAC Environmental Baseline Report* (EBR, February 2006) identifies Investigation Areas (IAs) and Miscellaneous Soil Sites (MSSs) that require further investigation. The *Work Plan for the Remedial Investigation and Feasibility Study* (RI/FS Work Plan, May 2006) has grouped the IAs and MSSs identified in the EBR into four "Operable Units (OUs)".

The Task Order Contractor's scope involves primarily the following three OUs for which DOE Office of Environmental Management (EM) has responsibility:

1. Groundwater Volatile Organic Compound (VOC) OU
2. Research Yard-Stanford Synchrotron Radiation Laboratory (SSRL)/Interaction Region (IR)-6 Drainage Channel OU
3. West SLAC/Campus Area/Interaction Region (IR)-8 Drainage Channel OU

The fourth OU is the Tritium Operable Unit, consisting only of the Beam Dump East Investigation Area. This OU is not part of this Task Order.

C.1.3 Task Order Objectives

The primary performance objective of the DOE EM mission is to restore the work areas for which SLAC EM has responsibility to conditions protective of human health and the environment for unrestricted land use. The EM mission is divided into two work scopes: (1) the EM work to be performed by the M&O Contractor and (2) the EM work to be performed by the Task Order Contractor. The Task Order shall complete the following activities:

a. Excavate and dispose of contaminated soil in a permitted disposal facility, restore excavated areas and obtain a closure certificate issued from the RWQCB, or obtain DOE Office of Science review and concurrence on closure/completion. Risk is based on residential land use and required cleanup goals are as follows:

    i. Reduce cancer risk to 1×10^{-6}

    ii. Reduce non-cancer risk to a Hazard Index of 1

    iii. Eliminate nuisance odors and free-phase liquids in soil

b. Install, test and write operating instructions for groundwater and soil vapor treatment and turn over to the M&O Contractor for operation. Risk is based on residential land use and required cleanup goals are:

    i. Lower of Maximum Contaminant Levels (MCLs) or other drinking water levels based on toxicity, taste and odor;

ii. Reduce cancer risk to 1 x 10^{-6} unless non risk based standard applies (e.g. MCLs);

iii. Reduce non cancer risk to a Hazard Index of 1 unless non risk based standard applies (e.g. MCLs).

c. Submit the RWQCB Order Deliverables, accepted by the RWQCB, to meet the schedule identified in the RI/FS Work Plan.

C.1.4 Contractor Performance

The Task Order Contractor shall furnish all personnel, facilities, equipment, material, services and supplies, (except as set forth in this contract to be furnished by DOE or others), and otherwise do all things necessary to accomplish work in a safe, integrated, effective, and efficient manner, in accordance with the terms and conditions of the Task Order. In performing the work, the Task Order Contractor shall comply with all applicable DOE orders and Local, State, and Federal statutes, laws, and regulations.

C.1.5 Integration Strategy

The SLAC effort involves several stakeholders and therefore will require coordination, cooperation, and communication among all parties. The stakeholders include:

1. The DOE Office of Science (SC) is the landlord for SLAC and is responsible for all activities on site. The DOE's Stanford Site Office (SSO) is SC's representative on site. SC funds the majority of the scientific research programs and infrastructure work at SLAC. At the completion of the EM mission all remaining environmental restoration responsibilities will be transferred to SC (e.g. operation of groundwater treatment systems, groundwater monitoring, and records).

2. The DOE Office of Environmental Management (EM) is responsible for funding and managing the scope of work within this Task Order. The EM Federal Project Director (FPD), or appointed Deputy, will serve as the lead integrator and reside on site at SLAC.

3. Stanford University (SU) is both the landowner and the current Management and Operating (M&O) Contractor for SLAC. As landowner, SU is concerned with ensuring that DOE restores the land for unrestricted use. As the M&O Contractor, SU has overall responsibility for safety and security of all activities on the site, such as badging, lock out/tag out (LOTO) control, excavation permits, emergency management, site access, site security, utilities, facilities' access, and site-specific training.

   The M&O Contractor shall continue to be responsible for a portion of the SLAC EM restoration project, as identified in the M&O contract's SOW. The Task Order Contractor is responsible only for the activities identified in the Task Order SOW.

4. The RWQCB is the administrating agency for the SLAC site investigation and remediation. The RWQCB must approve all deliverables required by their Order and issue Certificates of Closure for Investigation Areas (IAs) as applicable.

5. A Core Team is being utilized that consists of representatives from SC, EM, SU, and RWQCB. These individuals have decision-making authority and work together to reach agreement on key remedial decisions. The Core Team is using the data packages prepared by the M&O Contractor for most of the IAs and MSSs included in the EBR (Tables 4-1 and 4-3) to make decisions as to whether remedial actions are warranted. Data packages are not being prepared for IAs and MSSs that are known to require remediation.

C.2 ENVIRONMENTAL REMEDIATION – SOIL AND GROUNDWATER

C.2.1 Site-wide Activities

C.2.1.1 Objective

The objective of this task is to develop non-area-specific plans, processes, surveys, and reports that support the SLAC remediation project. The Task Order Contractor shall prepare specific program plans, including but not limited to sampling, quality assurance, integrated safety, and project turnover.

C.2.1.2 General Information

The M&O Contractor maintains all site sampling information in a Locus-Focus Environmental Database® program and also maintains a facility-wide investigation map for recalling the results and extent of past investigations.

The M&O Contractor has developed Standard Operating Procedures and a Field Sampling Plan for the SLAC project.

The M&O Contractor has an Integrated Safety and Environmental Management System (ISEMS) approved by the SSO that covers safe conduct of all operations at SLAC.

The M&O Contractor has developed a Work Smart Standards (WSS) set listed in the M&O contract (DE-AC03-76SF00515, Appendix E).

The M&O Contractor has developed a Quality Assurance Program Plan that applies to all activities on-site and a Quality Assurance Project Plan that is specific to environmental restoration activities.

The M&O Contractor has developed a Public Participation Plan that has been approved by the RWQCB and shall be used for this project.

C.2.1.3 Work To Be Performed

The Task Order Contractor shall perform the following in support of the environmental remediation activities. If the activities below or other activities specified in the SOW require development of a plan, the contractor may prepare a new plan consistent with the existing M&O plans, if any, or may adopt the existing M&O Contractor's contract plans

and make any revisions necessary in order to ensure the plan is complete and complies with any and all requirements. The Task Order Contractor is responsible for ensuring the completeness of the plan. All plans shall be in accordance with all applicable requirements including all DOE Orders identified in Section J of the Task Order. The Task Order Contractor shall perform the following activities:

a. Provide sample analysis information in accordance with the procedure approved by the Designated Contracting Officer (DCO) to the M&O Contractor for incorporation into the sampling database within 30 days after the results have passed the Task Order Contractor's sample validation process. The sample results shall be provided electronically in a format compatible with the M&O Contractor's database software. The Task Order Contractor will have "read-only" access to the database.

b. Develop methods and procedures to be used for conducting environmental and hydrogeologic investigations (e.g., Standard Operating Procedures).

c. Develop and maintain an Integrated Safety Management System (ISMS) for all of the work performed under this Task Order at SLAC as required by DEAR 952.223-1, "Integration of Environment, Safety, and Health into Work Planning and Execution". The Task Order Contractor's ISMS shall ensure safety considerations are integrated throughout the entire work planning and execution process. The Task Order Contractor's ISMS shall integrate with the M&O Contractor's ISEMS and utilize the M&O Contractor's WSS set. In addition to the requirements required by DEAR 952.223-1, the following shall be integrated into the ISMS:

i. Develop and implement a Worker Safety and Health Program in accordance with 10 CFR Part 851. Please note the program must be approved by DOE prior to starting work on site.

ii. Prepare and submit a SLAC Project Health and Safety Plan. The Task Order Contractor shall ensure that its plan addresses and encompasses all of the work to be performed under this Task Order at the site. The Plan shall also be applicable to Task Order Contractor's subcontractors performing work at SLAC and it is the Task Order Contractor's responsibility to ensure that all subcontractors performing work at SLAC comply with the Plan.

iii. Prepare and submit a SLAC Emergency Response Plan for work to be conducted under this Task Order. The Task Order Contractor shall ensure that this SLAC Emergency Response Plan addresses and encompasses all of the work to be performed under this Task Order and is integrated with the sitewide Emergency Response Plan.

iv. Comply with established M&O Contractor's site procedures for the dosimetry program, including ensuring that all contractor personnel and subcontractor personnel having site access receive General Employee Radiation Training.

d. Comply with the site specific M&O requirements, such as the Environment, Safety,
and Health requirements.

e. Develop a comprehensive and integrated contractor assurance system. The system shall cover the Task Order Contractor's operational aspects such as environment, safety, and health; safeguards and security; cyber security; emergency management; and business operations.

f. Develop and implement a Quality Assurance Program Plan.

g. Be responsible for all environmental compliance activities, including the obtaining of permits, associated with the Task Order Contractor's performance of all activities. The Task Order Contractor shall conduct all of its activities in compliance with environmental protection requirements including, but not limited to, those listed in Section J of this Task Order.

h. Follow SLAC work control procedures (e.g. lockout/tagout, excavation permits, underground utility locations/work.) The Task Order Contractor will coordinate with the M&O contractor through the COR when implementing these work controls and coordinate activities that affect utilities.

i. Adopt the existing DOE Storm Water Pollution Prevention Plan (SWP3) at the SLAC site.

j. In the event the Task Order Contractor develops a different remedial approach than previously approved by the RWQCB, the Task Order Contractor shall provide a draft of an amendment to the RI/FS Work Plan and deliver to the DOE DCO for review. Upon resolution of DCO comments, and acceptance by the DCO, the Work Plan will also be submitted to DOE SC and SU for review and comment. The Task Order Contractor shall, in a manner acceptable to the DOE, address and reconcile all comments submitted during this review and approval process. DOE and SU will submit the Work Plan to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE.

k. The Task Order Contractor shall be responsible for all demobilization activities at the completion of the task order. These activities include the removal of all equipment and all temporary structures, including trailers, brought on site for the remediation project.

C.2.2 Groundwater VOC OU

C.2.2.1 Objective

The objective is to implement appropriate remedial actions, such as groundwater treatment systems and/or soil removal, for groundwater and soil contamination associated with the four IAs and one MSS identified below.

C.2.2.2 General Information

At present, four IAs have been identified with elevated VOC and SVOC concentrations in groundwater. There is one MSS and one IA with PCB soil contamination. These IAs and MSS are as follows:

a. Former Solvent Underground Storage Tank Area (FSUST);

b. Plating Shop Area (PSA): Includes 1 Miscellaneous Soil Site (MSS-PSA Sediment Samples and Landscape Areas) where PCBs are detected;

c. Test Laboratory/Central Laboratory (TL/CL) Area;

d. Former Hazardous Waste Storage Area (FHWSA) including the artificial ridge where PCBs are detected.

The IAs are well characterized, and RI-equivalent documents have already been approved by the RWQCB. The Feasibility Study (FS) and Remedial Action Plan (RAP) are under development by the M&O Contractor. It is anticipated that both the FS and RAP will be approved by the RWQCB in mid-FY08. The Task Order Contractor is not responsible for the preparation of the FS and RAP.

The existing/current status of the IAs is as follows:

a. FSUST: A groundwater extraction and treatment system has been installed. An upgrade to a dual-phase extraction (DPE) system is being installed by the M&O Contractor. The M&O Contractor will continue to operate this system.

b. PSA: There are only monitoring wells in place. Low levels of tritium, VOCs, and 1,4-dioxane have been detected. The preliminary design of a DPE system has commenced and the preliminary design will be completed by the M&O Contractor. PSA Landscape/Sediment: PCBs have been detected in soil samples collected from the hillside west of the rinse water treatment plant (Building 038) at the PSA site.

c. TC/CL: Based on the initial characterization, no treatment system (only monitoring) was planned due to the low level of risk. Recent soil vapor data indicates a higher inhalation risk than previously calculated, so remedial alternatives are now being considered in the FS. The M&O Contractor has recommended a DPE system.

d. FHWSA: A DPE system has been installed and is fully operational. The M&O Contractor will continue to operate this system. FHWSA PCBs, primarily Aroclor 1260, have been detected in soil samples collected from an artificial ridge constructed in the southern portion of the FHWSA. The maximum detected PCB concentration is 2.4 mg/kg. The ridge was constructed as a visual barrier between SLAC and off-site properties and is required for continued SLAC operations. The approximate lateral and vertical extent of PCBs in soil within the artificial ridge has been characterized through soil sampling and analysis.

C.2.2.3 Work To Be Performed

The Task Order Contractor shall perform all activities necessary to:

a. Implement the selected alternative for the PSA identified in the RAP. Any type of treatment system shall be turned over in accordance with procedures/process approved by DOE to the M&O Contractor for operation and maintenance following the Task Order Contractor's preparation of operating procedures and completion of start-up and testing.

b. Implement the selected alternative for the TL/CL identified in the RAP. Any type of treatment system shall be turned over in accordance with procedures/process approved by DOE to the M&O Contractor for operation and maintenance following the Task Order Contractor's preparation of operating procedures and completion of start-up and testing.

c. Remove PCB-contaminated soil at the FHWSA artificial ridge. Dispose of all waste at appropriate permitted disposal facility. Obtain a certificate of closure from the RWQCB, or obtain DOE's acceptance of completion. Restoration of the ridge is not part of this Task Order.

d. Prepare the RAP Implementation Report and deliver the Report to DOE EM. DOE EM will submit the Report to DOE SC and SU for review and comment. DOE EM and SU will submit the Report to the RWQCB for approval. The Task Order Contractor shall reconcile all comments submitted during this review and approval process. The Task Order Contractor is also responsible for preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and the conduction of public meetings.

e. Prepare the Risk Management Plan (RMP) and deliver the plan to the DCO for review. The DCO will submit the RMP to DOE SC and SU for review and comment. The Task Order Contractor shall, in a manner acceptable to DOE, address and reconcile all comments submitted during this review and approval process. DOE and SU will submit the RAP Implementation Report and the RMP to the RWQCB for approval. The Task Order Contractor shall, in a manner acceptable to DOE, address and reconcile all comments submitted during this review and approval process.

C.2.3 West SLAC/Campus Area/ IR-8 Drainage Channel OU

C.2.3.1 Objective

The objective of this task is to investigate and remediate soil contamination associated with the investigation areas located in the West SLAC/Campus Areas and including the Interaction Region-8 (IR-8) Drainage Channel Area and also prepare the regulatory documents and submit to DOE for acceptance.

C.2.3.2 General Information

This OU encompasses twenty-four IAs and fifteen MSSs where Contaminants of Potential Concern (primarily PCBs, lead, and Total Petroleum Hydrocarbons) have been detected in soil, pavement, sediment, and/or waste piles, or remain uncharacterized, and remedial action may be required. The IAs and MSSs are listed in the SLAC EBR, February 2006 and Table 2.4-1 to the SOW.

Responsibility for the IAs and MSSs in the EBR Table 4-3 has been divided between DOE-EM and DOE-SC as shown in Table 2.4-1. As indicated in Table 2.4-1, removal actions at some IAs and MSSs are assigned to the M&O Contractor for removal actions in FY07. To date, no certificates of closure have been received for SLAC.

DOE has developed a contingent Removal Action Engineering Evaluation/Cost Analysis (EE/CA) that may be used by the Task Order Contractor for most excavations in advance of the FS; however, it is not applicable to drainage channels.

C.2.3.3 Work To Be Performed

The Task Order Contractor shall perform all activities necessary to:

a. Complete the remedial investigation (RI) and prepare and deliver the RI report to the DCO. The DCO will provide the RI report to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE and SU will submit the RI report to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. The RI report shall include the post removal action characterization information for the IAs and MSSs assigned to the M&O Contractor and all characterization information for both the SC and EM IAs & MSSs. The Task Order Contractor is also responsible for the preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and conduction of public meetings in conjunction with DOE, if required.

b. Prepare the Baseline Risk Assessment Report and deliver the report to DOE EM. The report will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE and SU will submit the report to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments

submitted during this review and approval process in a manner acceptable to DOE. This report will be performed only for IAs and MSSs that have not yet received a RWQCB Certificate of Completion or completed with a risk characterization finding of no risk-based Areas of Concern. The Task Order Contractor is responsible for the preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and the conduction of public meetings in conjunction with DOE, if required.

c. Prepare the Feasibility Study (FS) and deliver the FS to the DCO. The FS shall include all IAs and MSSs for which there is a risk greater than the cleanup goals. The FS will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE EM and SU will submit the FS to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. The contractor is also responsible for the preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and the conduction of public meetings in conjunction with DOE, if required.

d. Prepare the Remedial Action Plan (RAP) and deliver the RAP to the DCO. The RAP will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE EM and SU will submit the RAP to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. The Task Order Contractor is also responsible for the preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and the conducting of public meetings in conjunction with DOE.

e. Perform soil excavation and remediation at those EM IAs and MSSs designated in Table 2.4-1 which have been or are in the future determined by the Core Team to have an unacceptable risk. Dispose of all waste at a properly permitted disposal facility. The Task Order Contractor is also responsible for the development of any additional EE/CAs, design and work plans; obtaining necessary permits (e.g., Joint Aquatic Resource Permit Application (JARPA) for drainage channels); assisting DOE in obtaining certificates of closure; preparation and distribution of the Fact Sheet; preparation and distribution of the Responsiveness Summary to public comments; and conduction of public meetings in conjunction with DOE, if required. Storm water accumulated during the course of the Task Order Contractor's excavation activities is the responsibility of the Task Order

Contractor to disposition; however, the management and treatment of site-wide storm water is not within the scope of this Task Order.

f. Prepare the RAP Implementation Report and Operation and Maintenance (O&M) Plan and deliver the RAP Implementation Report and plan to the DCO. The Report and the Plan will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE and SU will submit the report and the plan to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE.

g. Prepare the Risk Management Plan (RMP) and deliver the plan to the DCO. The RMP will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE and SU will submit the report and the plan to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE.

C.2.4 Research Yard/SSRL/IR-6 Drainage Channel OU

C.2.4.1 Objective

The objective of this task is the investigation and removal of contamination associated with the Research Yard/SSRL and the investigation of the Interaction Region-6 (IR-6) Primary and Secondary Drainage Channel area and removal of contamination associated with the IR-6 Secondary Drainage channel, if required. The Task Order Contractor is responsible for all activities necessary for conducting remedial investigations, risk assessments, excavation if required, and submission of required regulatory documents to DOE for acceptance.

C.2.4.2 General Information

This OU includes nine IAs as identified in the RI/FS Work Plan and identified in Table 2.5-1. There has been extensive characterization of the Research Yard, and despite past remedial actions, PCBs and lead continue to be detected in the storm water catch basins within the Research Yard and in the sediments at the (IR-6) Primary and Secondary Drainage Channels. A storm drain system in the Research Yard conveys storm water from the approximately 30-acre Research Yard and SSRL watershed area to the IR-6 Primary Drainage Channel. The IR-6 Primary Drainage Channel sediments were excavated twice (most recently in 2006) to address these contaminants.

The Task Order Contractor is not responsible for the site-wide storm water management, and associated activities. This includes treatment, future excavation and remediation of the IR-6 Primary Drainage Channel and the preparation and submittal of an FS pertaining to this OU and all subsequent documents.

C.2.4.3 Work To Be Performed

The Task Order Contractor shall perform all activities necessary to:

a. Complete the remedial investigation (RI), prepare and deliver the RI report to the DCO. The RI report will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. DOE EM and SU will submit the RI report to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. The RI report shall include the post removal action characterization information for the IAs and MSSs assigned to the M&O Contractor and all characterization information for both the SC and EM IAs & MSSs. The Task Order Contractor is also responsible for the preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and the conduction of public meetings in conjunction with DOE, if required.

b. Prepare the Baseline Risk Assessment Report for all IAs and MSSs in this OU and deliver the report to the DCO. The report will be provided by the DCO to DOE SC and SU for review and comment. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. The DCO will submit the report to DOE SC and SU for review and comment. DOE and SU will submit the report to the RWQCB for approval. The Task Order Contractor shall address and reconcile all comments submitted during this review and approval process in a manner acceptable to DOE. The Task Order Contractor is also responsible for the preparation and distribution of the Fact Sheet, preparation and distribution of the Responsiveness Summary to public comments, and the conduction of public meetings in conjunction with DOE, if required.

c. Perform soil excavation and remediation at those IAs and MSSs identified in Table 2.5-1 (excluding the IR-6 Primary Drainage Channel but including the IR-6 Secondary Drainage Channel) which have been or are determined in the future by the Core Team to have an unacceptable risk. The contractor is also responsible for the development of any additional EE/CAs design and work plans, implementation/completion report, obtaining necessary permits (e.g., JARPA for drainage channels), and assisting in obtaining certificates of closure.

C.2.5 PROJECT MANAGEMENT

C.2.5.1 Objective

The objective of this task is to implement and maintain the management systems, plans, and processes needed to effectively and efficiently execute the project.

C.2.5.2 General Information

DOE will manage all the EM work performed by the Task Order Contractor and the M&O Contractor as a single project. A Work Breakdown Structure (WBS) has been developed that integrates both the Task Order Contractor and M&O Contractor SOWs.

The Task Order Contractor shall plan its work in conjunction with and in cooperation with the ongoing research operations. Besides performing the research and managing the work control programs, the M&O Contractor is responsible for removing material stored in work areas and providing access to work areas.

C.2.5.3 Work To Be Performed

The Task Order Contractor shall perform the following activities:

a. Develop and maintain a project management system and integrated Contractor and Federal baseline plan in accordance with DOE Order 413.3. The Task Order Contractor shall also incorporate monthly schedule updates from the M&O Contractor as specified in Section H.

b. Track and disposition all material and personal property purchased and/or acquired under this Task Order in accordance with DOE Order 580.1.

c. Provide input, record keeping, and reporting of any real property assets in accordance with DOE Order 430.1B.

d. Implement a records management program compliant with DOE Order 243.1 and in accordance with SLAC's existing Administrative Record procedures/processes.

e. Provide support to DOE for project meetings, including Core Team meetings, as required.

f. Assist DOE on data calls, program integration, and litigation.

g. Develop and maintain a Risk Management Plan to include Risk Management philosophy, approach, objectives, and processes and address the management of risks, including the plan to mitigate each risk. The plan shall also include an estimate of all traditional cost contingencies and an analysis of the potential cost impacts of specific risk factors.

h. Provide information and support to DOE and the M&O Contractor in general stakeholder/pubic meetings.

i. Provide training to contractor personnel, its subcontractor(s), and to DOE personnel, when required.

j. Establish on-site work areas necessary to manage and execute this Task Order and remove and restore all work areas at completion of Task Order.

Table 2.4-1

Scope Responsibility for West SLAC Area / Campus Area / IR-8 OU

EBR TABLE 4-3 SITES			
Investigation Area Designation	**Site Type (a)**	**Scope Responsibility**	**Comments**
Abandoned Straw Bales South of IR-12; Abandoned Concrete South of IR-12	MSS	EM/Task Order Contractor will be responsible for incorporating existing data into the RI report	Contaminated materials have been removed; no known environmental contamination exists
Bone Yard	IA	EM/Task Order Contractor	
Building 007 Area	IA	EM/Task Order Contractor	
Building 24 Hot Water Line	MSS	EM/Task Order Contractor	
Building 81 Area	IA	EM/M&O Contractor Not an Task Order Contractor Responsibility	
Building 136 Enclosure	IA	EM/Task Order Contractor	
Building Number 27 Aerobics Facility	MSS	EM/Task Order Contractor	
Casting Pad & Building 18 Area	IA	EM/Task Order Contractor	
Catch Basin Samples from the Beam Switch Yard at Surface Grade	MSS	SC Not an Task Order Contractor Responsibility	Contamination in catch basins is addressed in SLAC storm water management program
Clean Landfill	IA	EM/Task Order Contractor	
Cooling Tower 101 Landscape Area	MSS	EM/Task Order Contractor	
Cooling Tower 1202 - New Ladder	MSS	SC Not an Task Order Contractor Responsibility	Active SC use precludes access
Former Cement Plant Area	IA	EM/M&O Contractor removal action Not an Task Order Contractor Responsibility	
Former Substation 406	IA	EM/M&O Contractor removal action Not an Task Order Contractor Responsibility	
IR-2 Drainages (IR-2 Outfall and IR-2 Drainage Swale)	MSS	EM/Task Order Contractor	
IR-2 Entrance Road Island	MSS	EM/Task Order Contractor	

EBR TABLE 4-3 SITES			
Investigation Area Designation	**Site Type (a)**	**Scope Responsibility**	**Comments**
IR-8 Buildings "IR-8 Strip" "IR-8 Power Supply"	IA	EM/Task Order Contractor SC IR-8 Power Supply: Not an Task Order Contractor Responsibility	Inaccessible due to active SC use
IR-8 Drainage Channel	IA	EM/Task Order Contractor – one time clean out of unlined portion of drainage channel if required. No Task Order Contractor requirement for clean out of lined portion/concrete channel. SC will be responsible for any future (non-legacy) removal of contaminated drainage channel sediment. Remainder after one time clean out of unlined portion: Not an Task Order Contractor Responsibility	Future (non-legacy) sediment contamination is a storm water-related issue.
IR-8 Fill Area	MSS	EM/Task Order Contractor	
Klystron Gallery Variable Voltage Substation Drainage Channels	MSS	EM/Task Order Contractor	
Lower Salvage Yard	IA	EM/Task Order Contractor to address contamination in accessible areas. SC will be responsible for addressing contamination in inaccessible areas. Not an Task Order Contractor Responsibility	Area in active SC use and portions of contamination are not accessible
Magnet Storage Yard	IA	SC Not an Task Order Contractor Responsibility	Contamination limited to asphalt; area is in active use by SC.
Master Substation Drainage Channel	MSS	EM/Task Order Contractor	

EBR TABLE 4-3 SITES			
Investigation Area Designation	**Site Type** [a]	**Scope Responsibility**	**Comments**
New Visitor Parking Lot Extension	MSS	EM/Task Order Contractor	No known residual soil contamination.
Sector 0 Storage Area	IA	EM/M&O Contractor removal action Not an Task Order Contractor Responsibility	
Sector 16 Soil Relocation Area	IA	EM/M&O Contractor removal action Not an Task Order Contractor Responsibility	
Sector 16 Soil Relocation Area Drainage Channel Swale	MSS	EM/Task Order Contractor	
Sector 16 Storage Area Drainage Channel	MSS	EM/Task Order Contractor	
Service Area Road (part of Beam Switch Yard Central Area)	MSS	EM/Task Order Contractor will be responsible for incorporating existing data into the RI report	No known environmental contamination; location is paved.
Storage Area South of Master Substation	IA	EM/Task Order Contractor	
Upper Salvage Yard	IA	SC will be responsible for removal of contaminated sediment. No characterization; no removal of contaminated sediment; no associated pavement replacement requirement for the Task Order Contractor.	Sediment contamination is addressed in SLAC storm water management program

[a] IA = Investigation Area. MSS = Miscellaneous Soil Site

Table 2.5-1

IAs and MSS in Research Yard-SSRL/IR6 Drainage Channel

IA or MSS	EBR Table No.	Comments
Former Substation 502	Table 4-1	
Former Substation 504	Table 4-1	
Former Substation 512	Table 4-1	
Former Substation 510	Table 4-1	
Former Substation 509	Table 4-1	
Former Substation 501	Table 4-1	
Substation 505	Table 4-1	
IR-6 Drainage Channel	Table 4-3	Excavation, if required, is limited to the secondary channel
Research Yard-SSRL Area	Table 4-3	Storm water management is the responsibility of SC